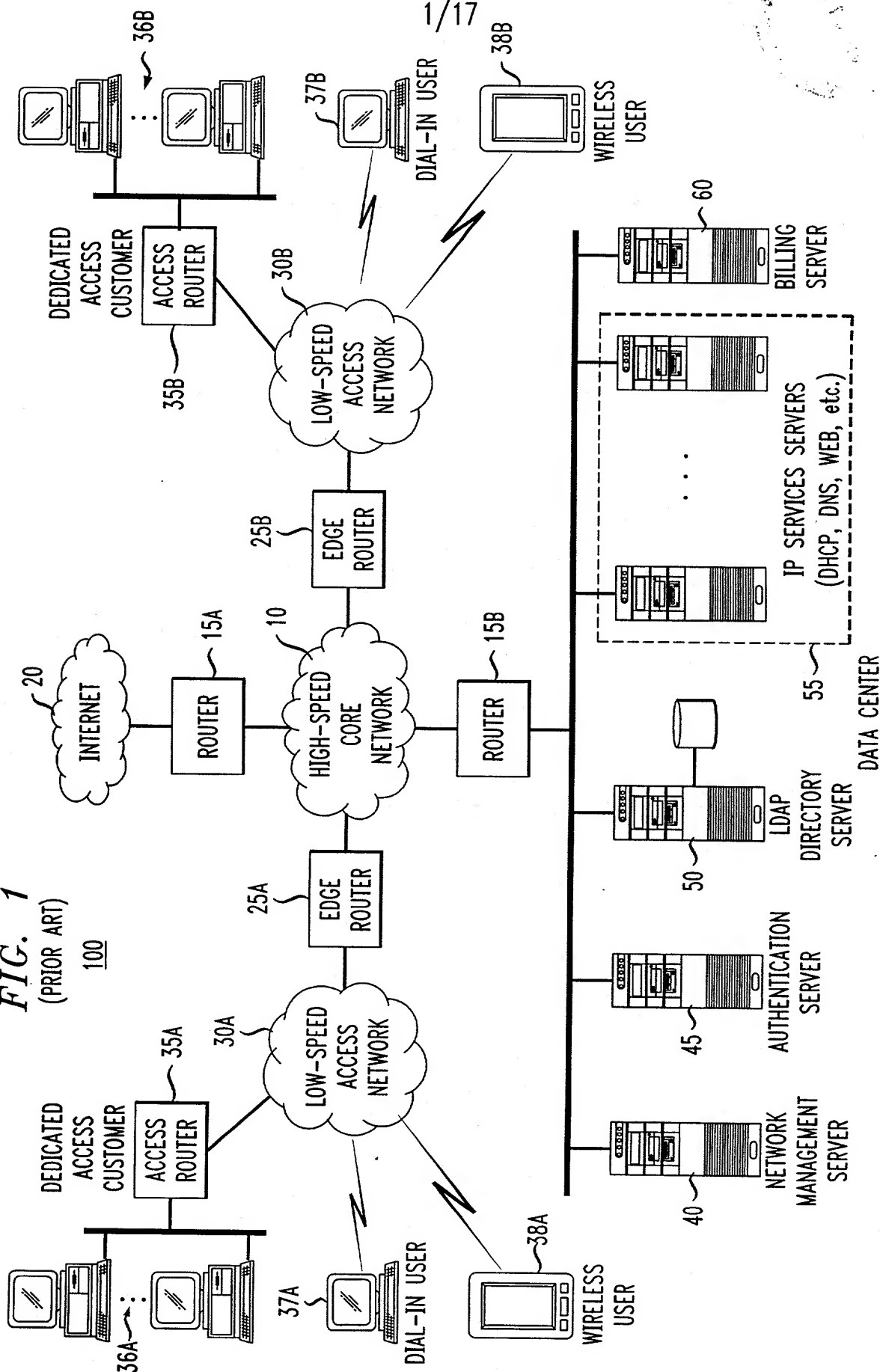


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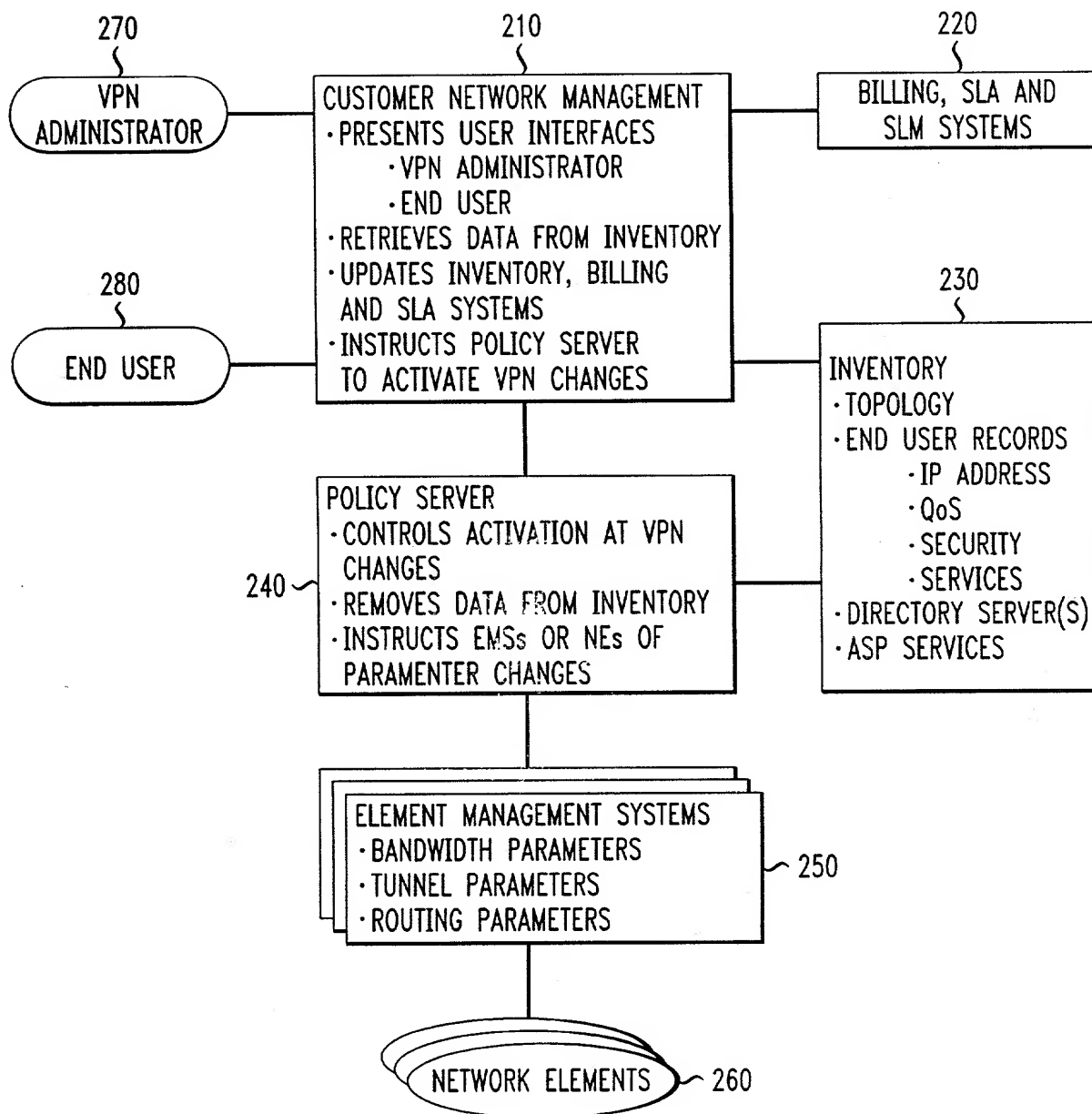
FIG. 1
 (PRIOR ART)



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FIG. 2

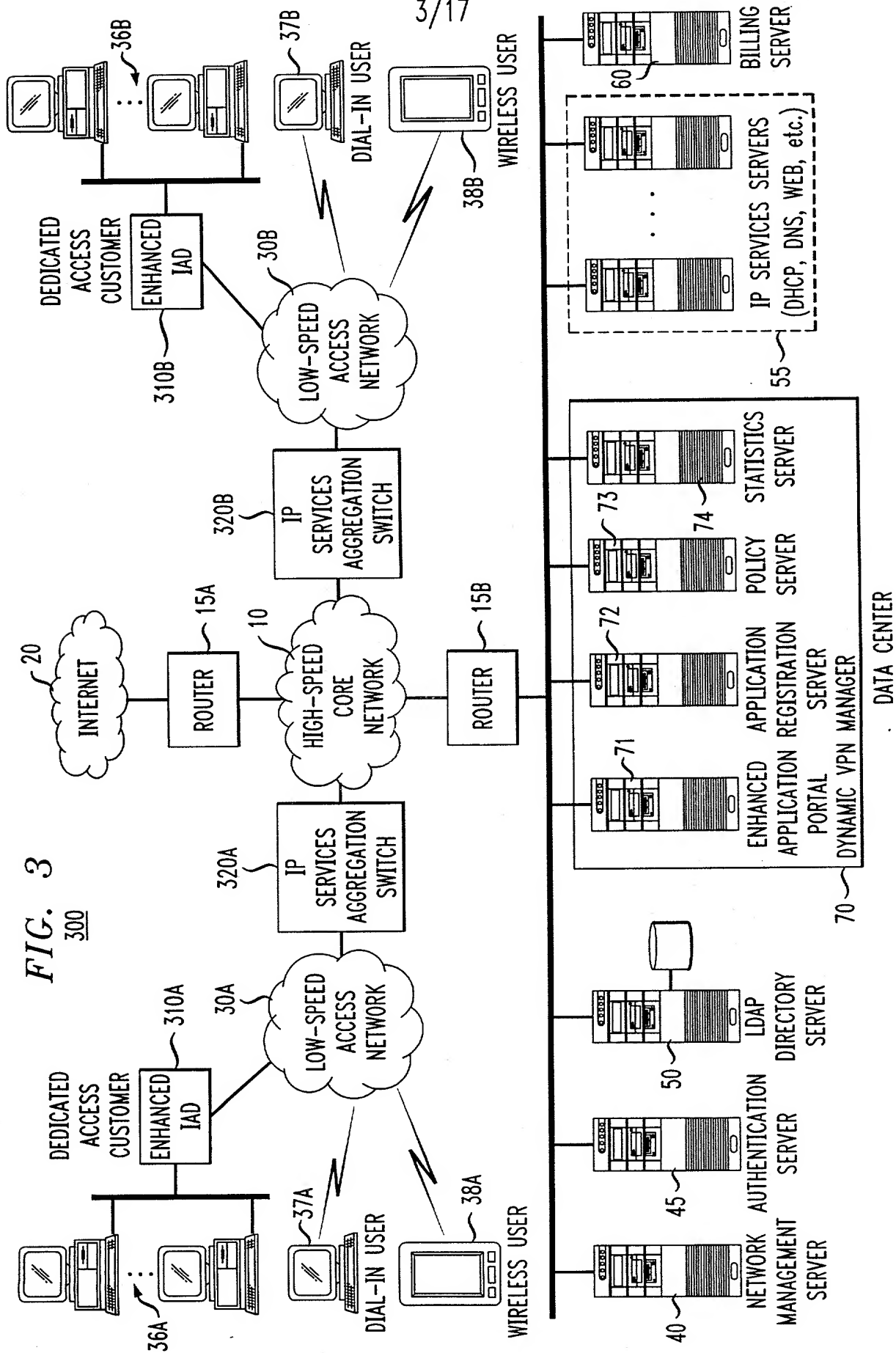
200



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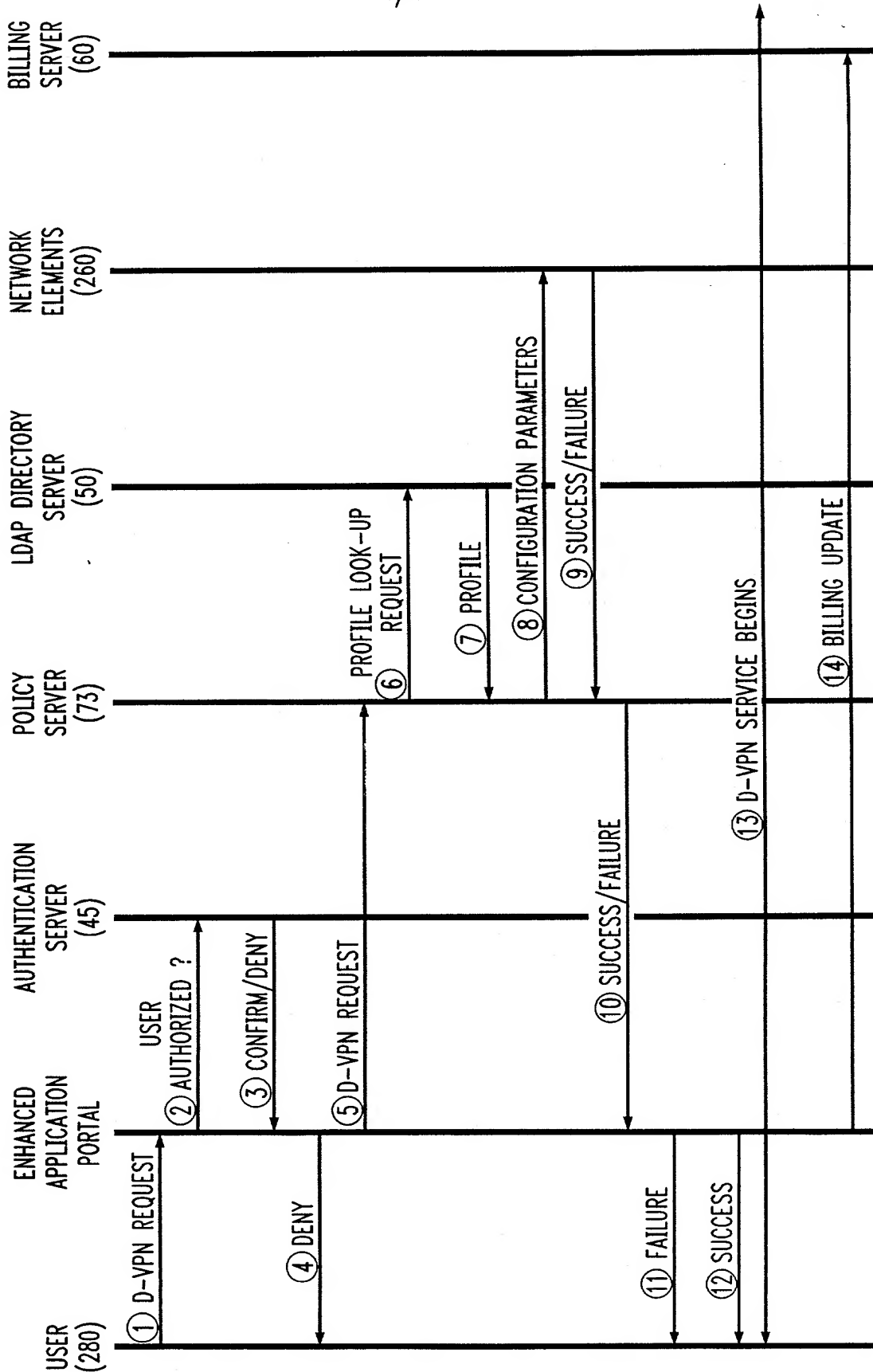
FIG. 3

FIG. 3 is a block diagram of a Dynamic Virtual Private Network System 300. The system includes a central High-Speed Core Network 10, which is connected to the Internet 20 via Router 15A and to a Data Center 70 via Router 15B. The High-Speed Core Network 10 is connected to two Low-Speed Access Networks 30A and 30B. Each Low-Speed Access Network is connected to an Enhanced IAD 310A and 310B, which in turn are connected to Dedicated Access Customers 36A and 36B. The Low-Speed Access Networks 30A and 30B are also connected to IP Services Aggregation Switches 320A and 320B. These switches are connected to a central IP Services Aggregation Switch 320B. The system also includes Dial-In Users 37A and 37B, and Wireless Users 38A and 38B. The Data Center 70 contains various servers including Network Management Server 40, Network Authentication Server 45, LDAP Directory Server 50, Enhanced Application Portal Dynamic VPN Manager 71, Application Registration Server 72, Policy Server 73, Statistics Server 74, IP Services Servers (DHCP, DNS, Web, etc.) 55, and Billing Server 60.



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FIG. 4



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FIG. 5

500

D-VPN CUSTOMER SUBSCRIPTION

LOGIN | SERVICE REQ | SLA REPORTS | TROUBLE TICKET | CUSTOMER SERVICE

510 GUARANTEED BANDWIDTH ▼ SELECT SERVICE

520 MM/DD/YYYY HH:MM ▼ START TIME MM/DD/YYYY HH:MM ▼ STOP TIME

530 IP ADDRESS LOCATION 1 ▼ SPECIFY VPN LOCATIONS

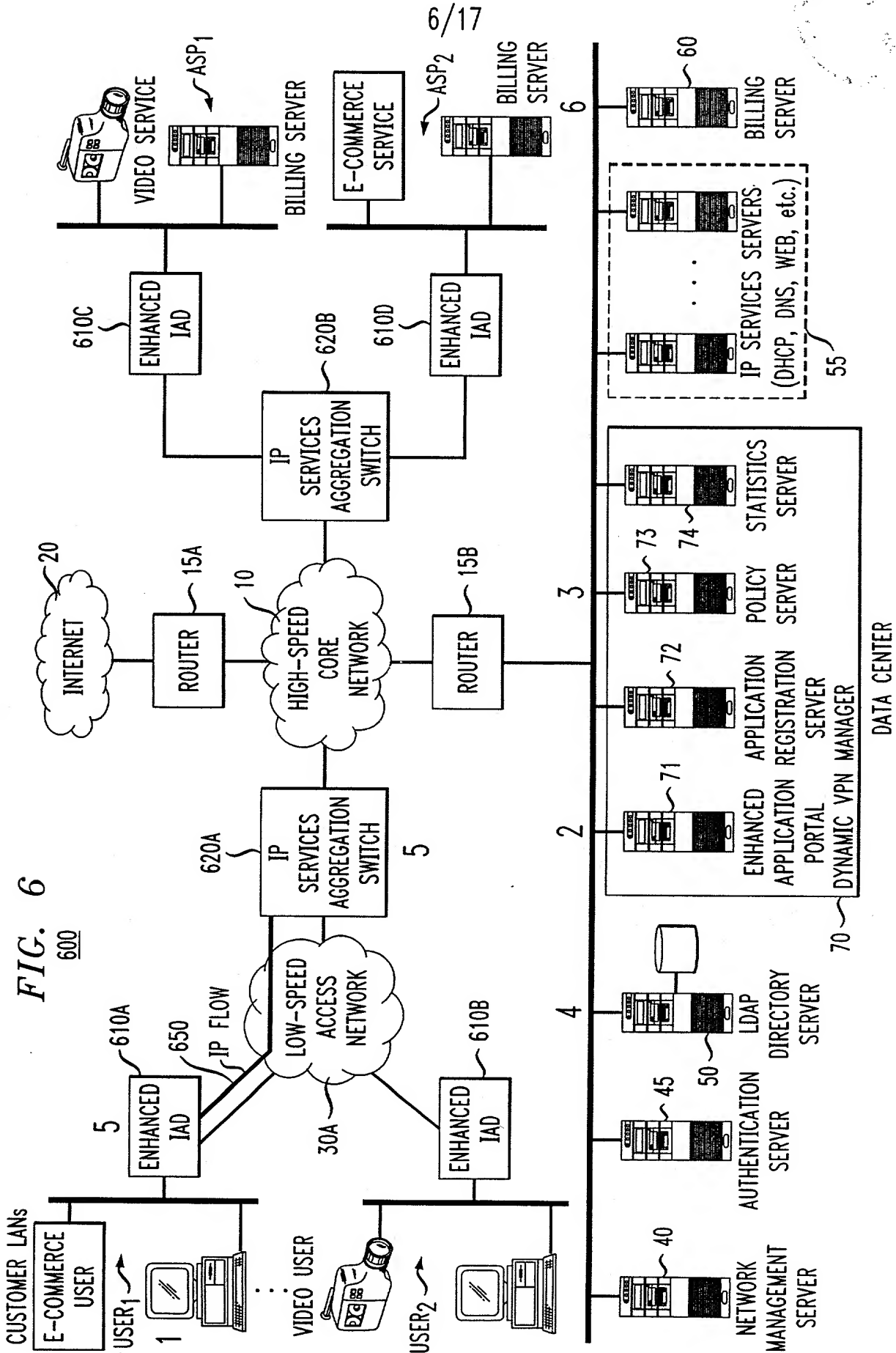
540 FILE TRANSFER ▼ SELECT APPLICATION

550 256K ▼ SELECT BANDWIDTH 550A 256K 550B 334Kbps 550C 1.5Mbps

560 USER-SELECTED-NAME ▼ SAVE AS

FIG. 6 is a block diagram of a Dynamic Virtual Private Network System. The system includes a High-Speed Core Network (10) connected to an Internet (20) via Router 15A. The High-Speed Core Network (10) is also connected to a Low-Speed Access Network (30A) via Router 15B. The Low-Speed Access Network (30A) is connected to a Data Center (70) via Router 15B. The Data Center (70) contains various servers including a Network Management Server (40), an Authentication Server (45), a Directory Server (50), an Enhanced Application Portal (71), an Application Registration Server (72), a Policy Server (73), a Statistics Server (74), and a Dynamic VPN Manager (75). The High-Speed Core Network (10) is also connected to an IP Services Aggregation Switch (5) and an IP Services Aggregation Switch (6). The IP Services Aggregation Switch (5) is connected to an Enhanced IAD (610A) and an Enhanced IAD (610B). The Enhanced IAD (610A) is connected to a Customer LANS (1) and a Video User (2). The Enhanced IAD (610B) is connected to a Video User (3) and a Customer LANS (4). The IP Services Aggregation Switch (6) is connected to an Enhanced IAD (610C) and an Enhanced IAD (610D). The Enhanced IAD (610C) is connected to a Video Service (4) and a Billing Server (5). The Enhanced IAD (610D) is connected to an E-commerce Service (6) and a Billing Server (7). The system also includes an IP Flow (650) and an IP Services Aggregation Switch (10).

FIG. 6



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FIG. 7

D-VPN CUSTOMER SUBSCRIPTION

LOGIN | SERVICE REQ | SLA REPORTS | TROUBLE TICKET | CUSTOMER SERVICE

CUSTOMER VPN MGMT. ▼ SELECT SERVICE

MM/DD/YYYY HH:MM ▼ START TIME

STOP TIME

VPN LOCATION 1 IP ADDRESS ▼ SPECIFY VPN LOCATIONS

QoS PROFILE

PLATINUM ▼

PLATINUM 750A

GOLD 750B

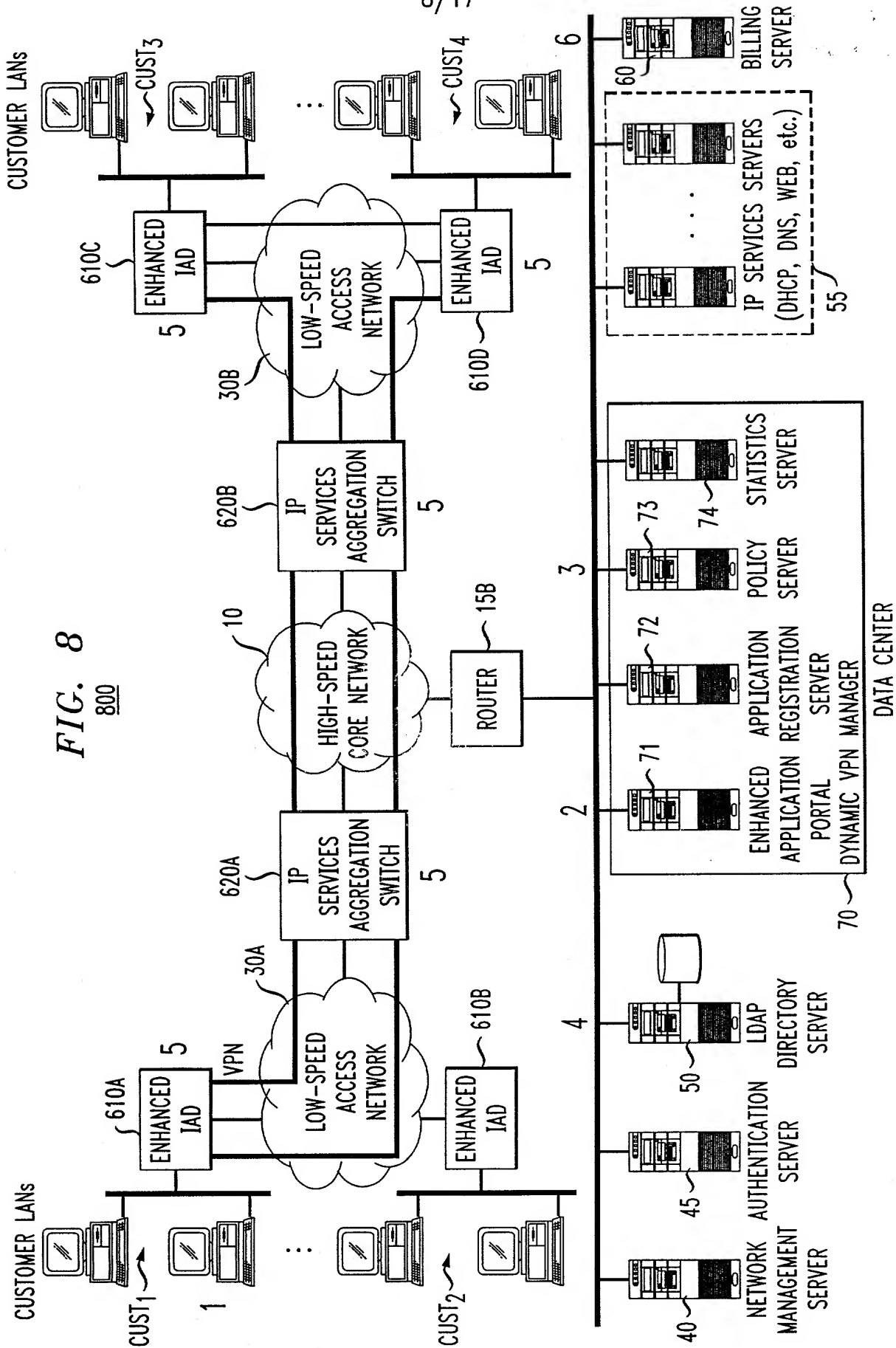
SILVER 750C

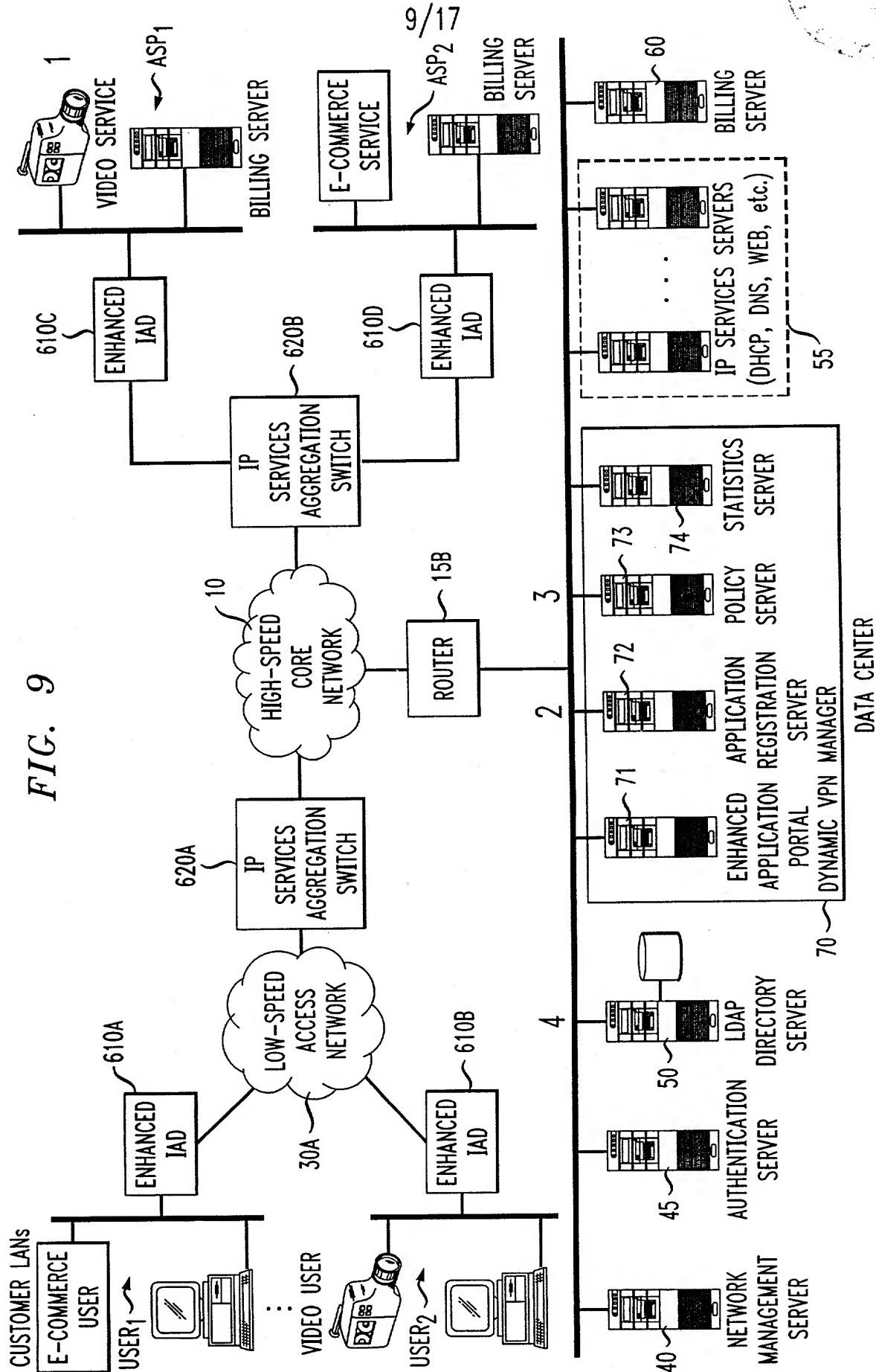
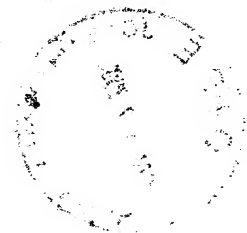
BRONZE 750D

SECURITY PROFILE

TOP SECRET ▼ USER-DEFINED-NAME ▼ SAVE AS

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FIG. 10

1000

D-VPN CUSTOMER SUBSCRIPTION

LOGIN | SERVICE REQ | SLA REPORTS | TROUBLE TICKET | CUSTOMER SERVICE

1010 ON DEMAND APPLICATION SUBSCRIPTION ▼ SELECT SERVICE

1020

ONLINE TRAINING ▼ SELECT APPLICATION

ONLINE TRAINING 1021

MOVIES ON DEMAND 1022

1030 USER ID. PASSWORD. BILLING INFO ▼ END USER AUTHENTICATION

1040 MM/DD/YYYY HH:MM ▼ START TIME

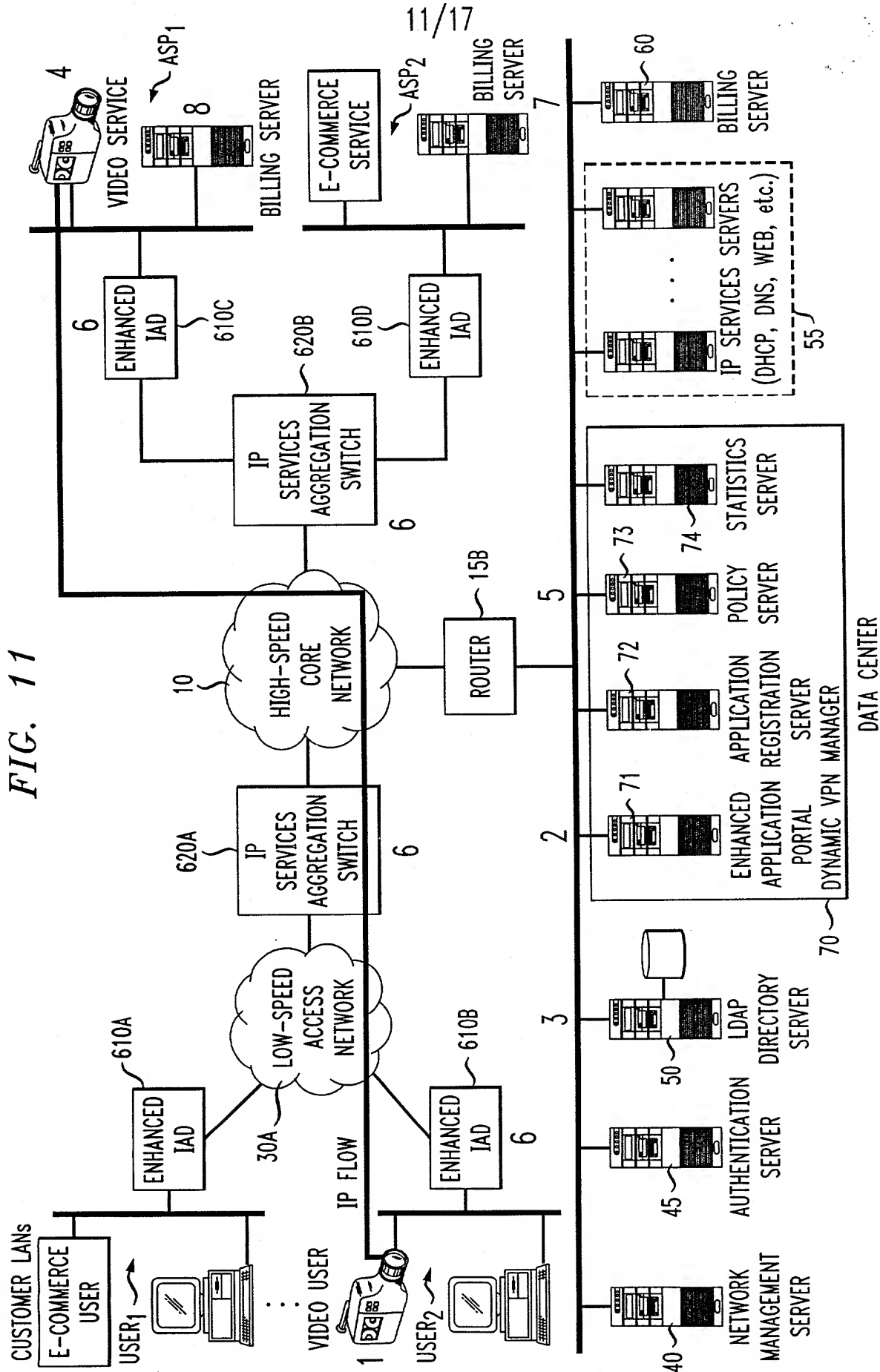
1060 PLATINUM ▼ APPLICATION QoS PROFILE

1070 TOP SECRET ▼ APPLICATION SECURITY PROFILE

1080 384Kbps ▼ SELECT BANDWIDTH

1050 MM/DD/YYYY HH:MM ▼ STOP TIME

FIG. 11



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FIG. 12

APPLICATION MANAGES D-VPN

DogFight.com 1200

SELECT ENGAGEMENT:

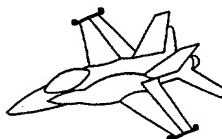
1211	STAR WARS -	\$6.95 PER HR.	▼
1212	DESERT STORM -	\$5.95 PER HR.	
1213	VIETNAM -	\$4.95 PER HR.	
1214	KOREA -	\$3.95 PER HR.	
1215	WWII -	\$2.95 PER HR.	
1216	WWI -	\$1.95 PER HR.	

1210

SUBMIT

SELECT QoS LEVEL
(BANDWIDTH REQUIRED, BILLING)

SELECT WHICH VPN TO JOIN
(GAME, PLAYERS FORM "VPN")



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FIG. 13

ExecuNet.com

1300

SELECT VPN:

1311	BOARD -	\$75.00 PER HR.	▼
1312	OFFICERS -	\$70.00 PER HR.	
1313	EXECUTIVES -	\$65.00 PER HR.	
1314	MANAGEMENT -	\$60.00 PER HR.	
1315	EMPLOYEES -	\$55.55 PER HR.	
1316	ANALYSTS -	\$50.00 PER HR.	

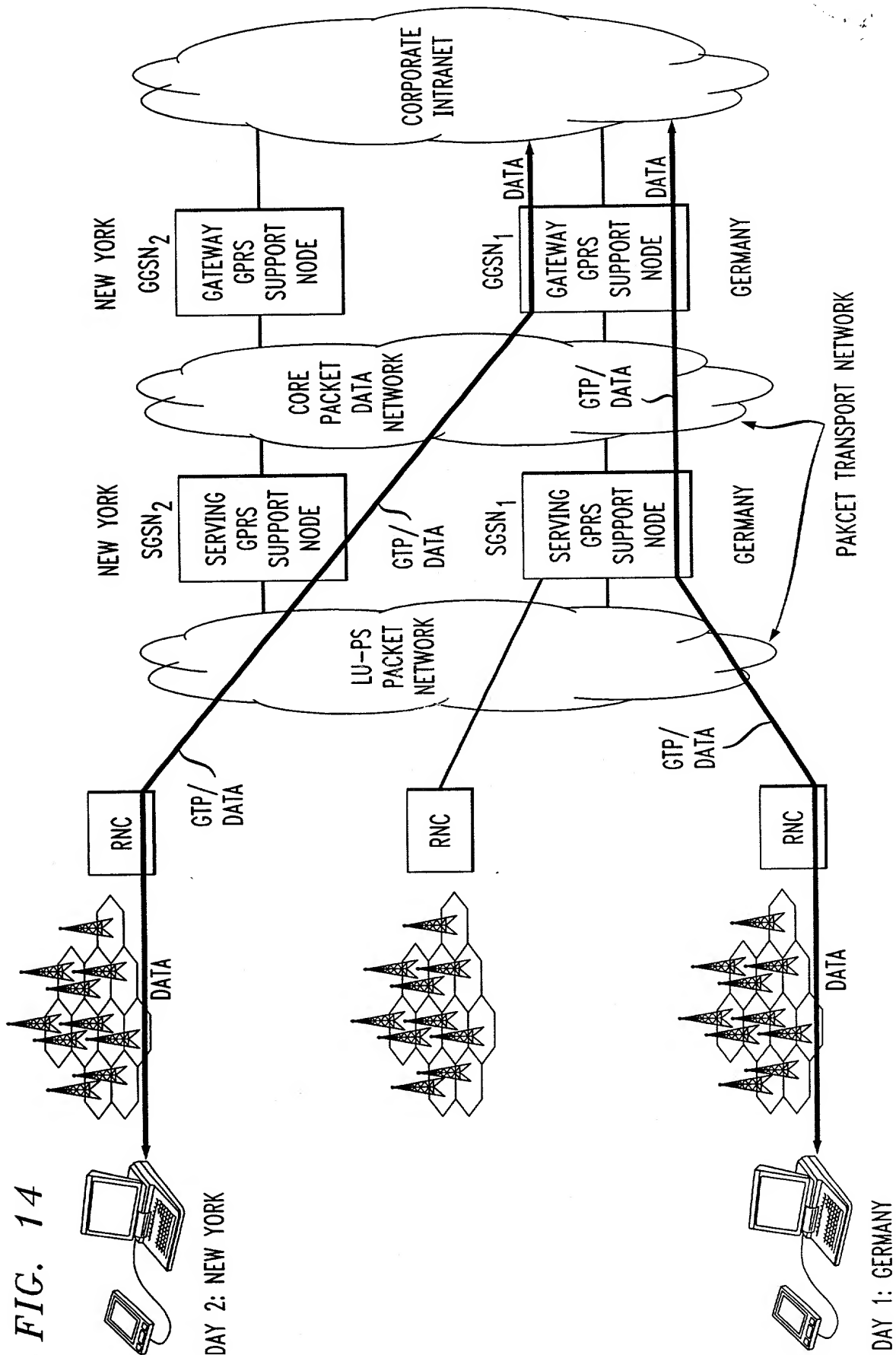
1310

SUBMIT

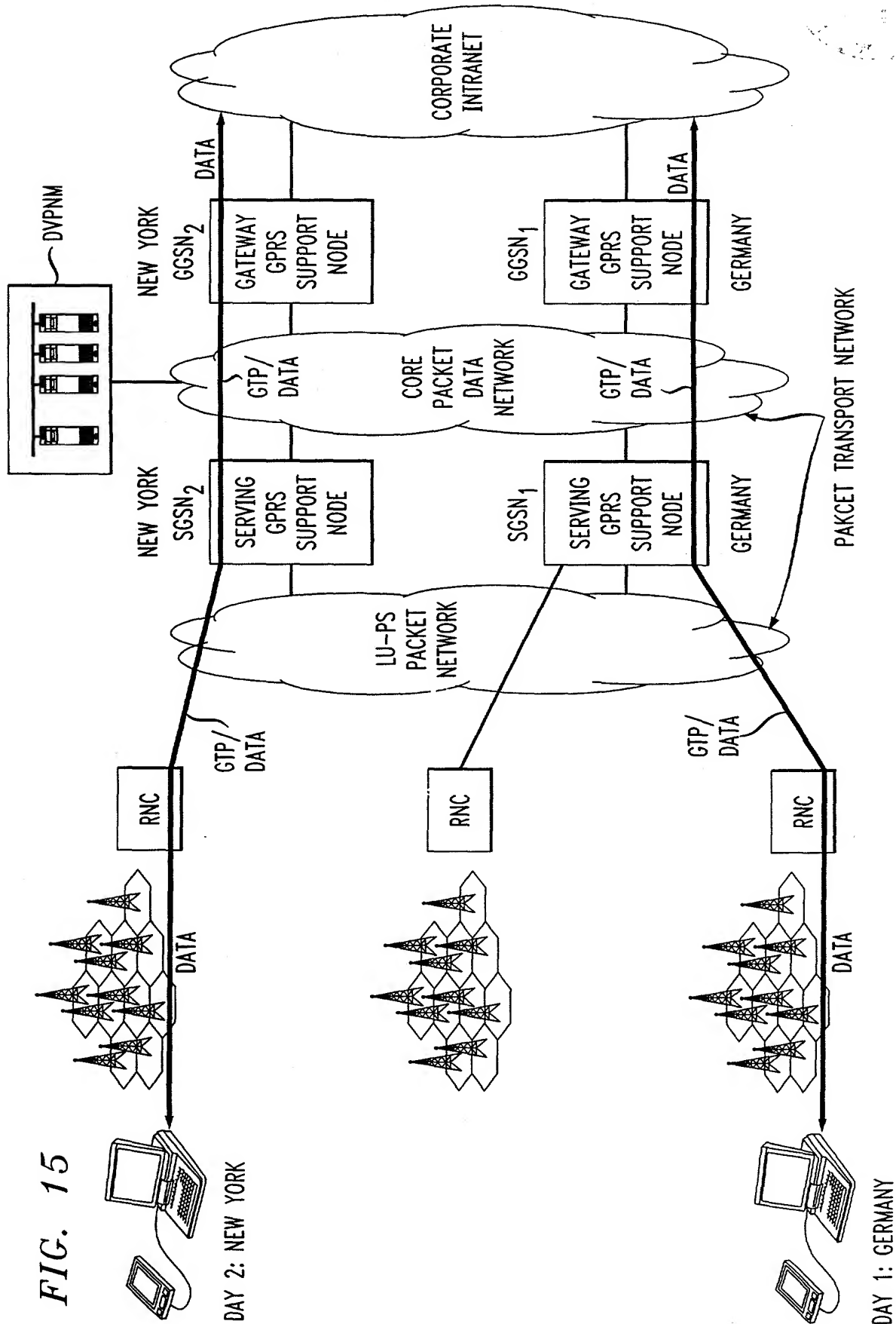
PAY-PER-USE PRICING
REFLECTS QoS, SECURITY AND
NUMBER OF END POINTS.

EACH ENTRY REPRESENTS A
CLOSED USER GROUP AT CERTAIN
QoS AND SECURITY LEVELS.

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